

FIG.1

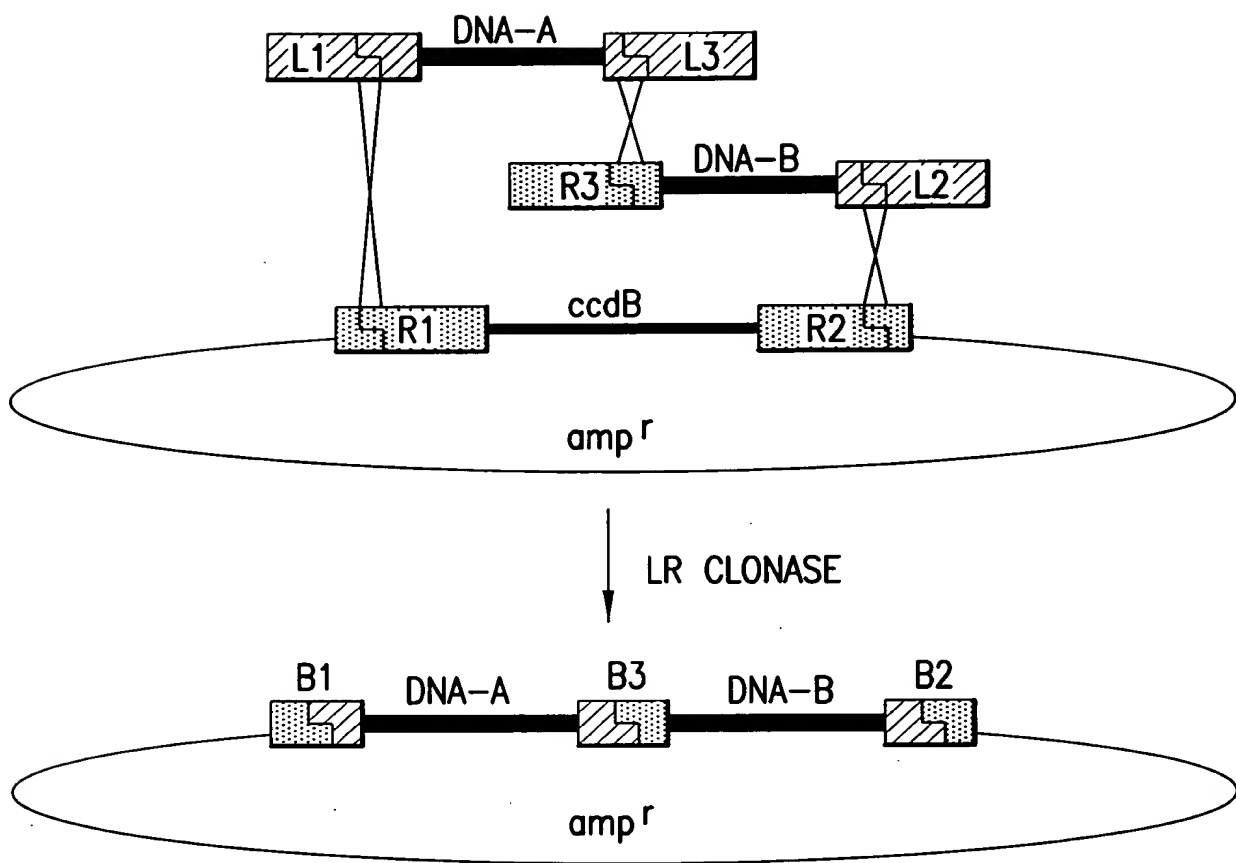


FIG.2

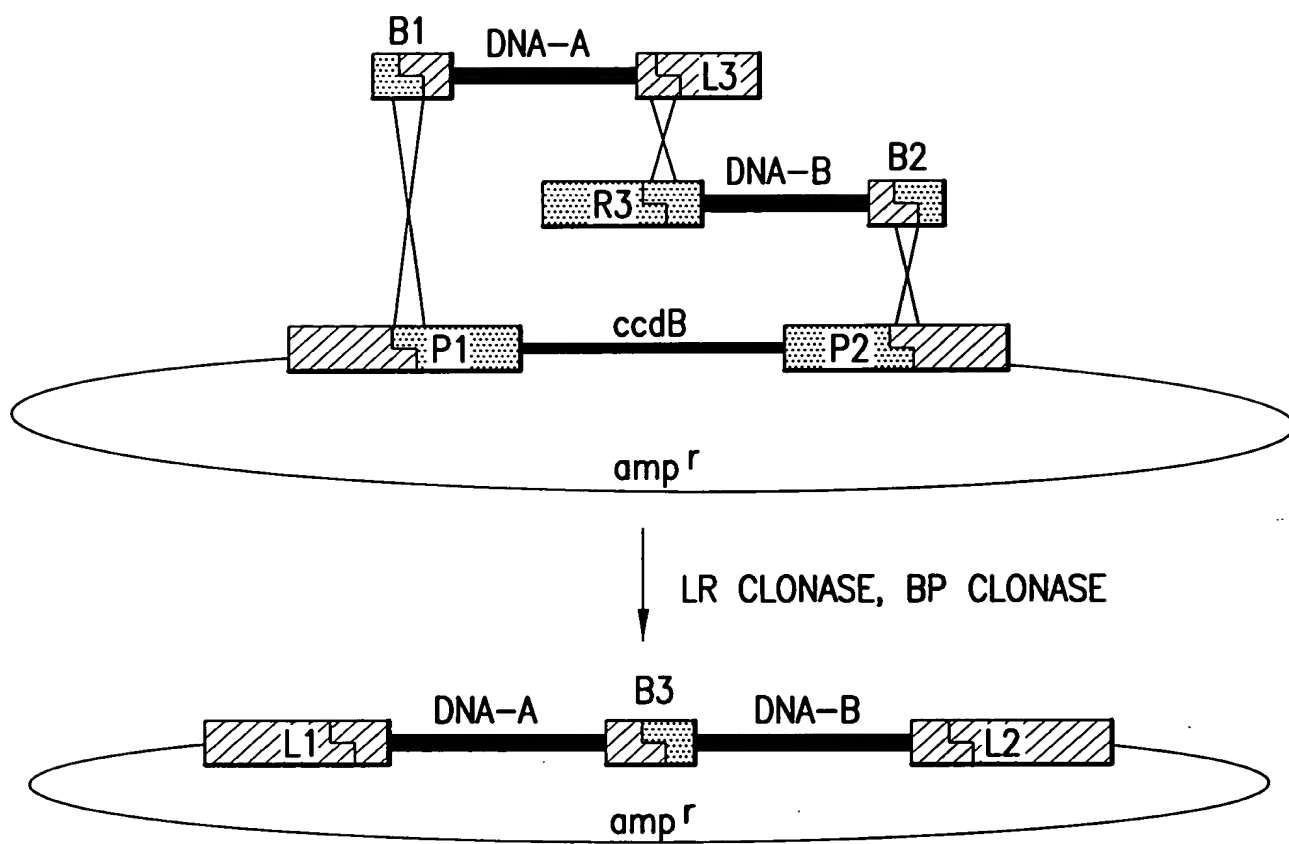


FIG.3

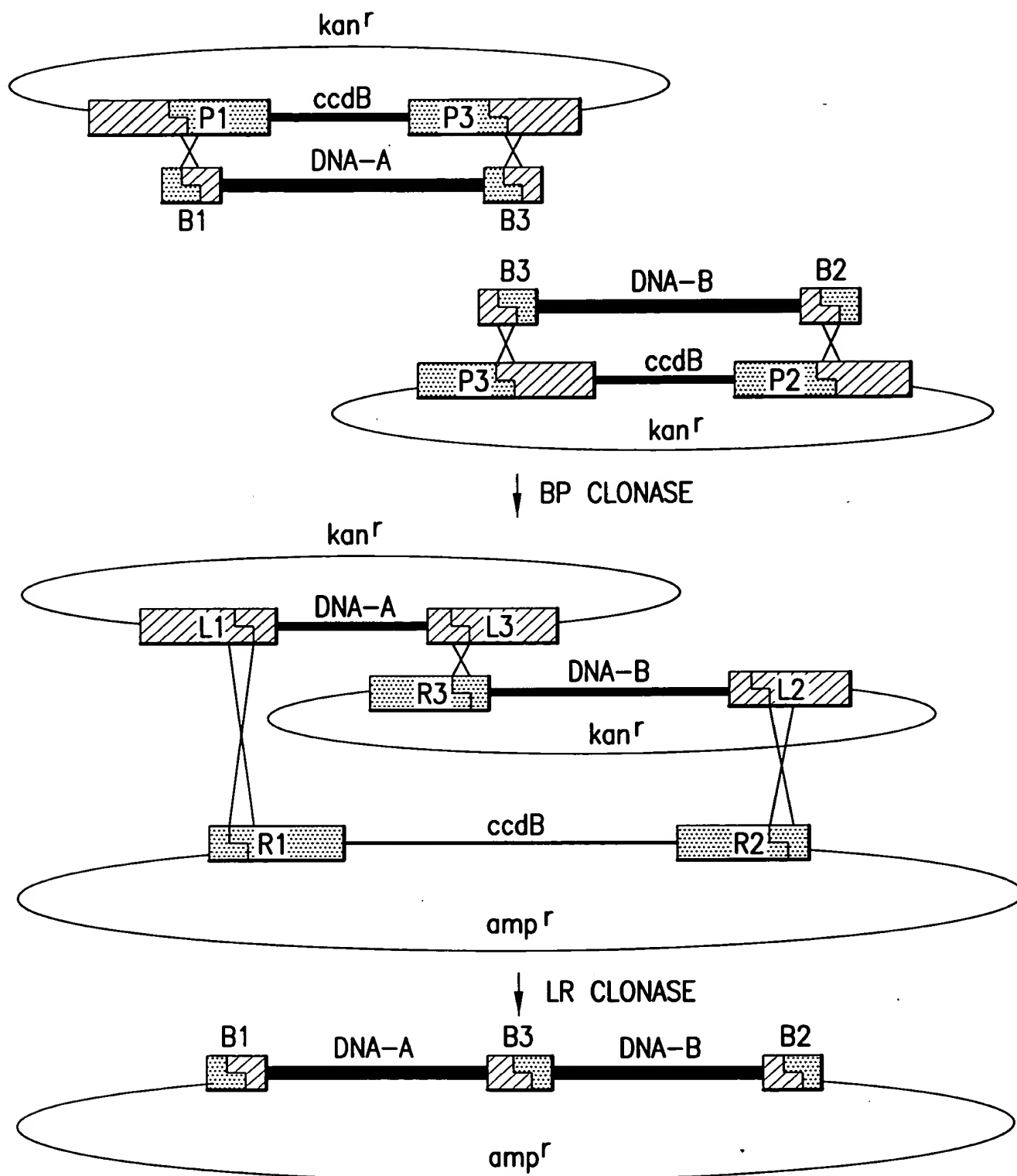


FIG.4

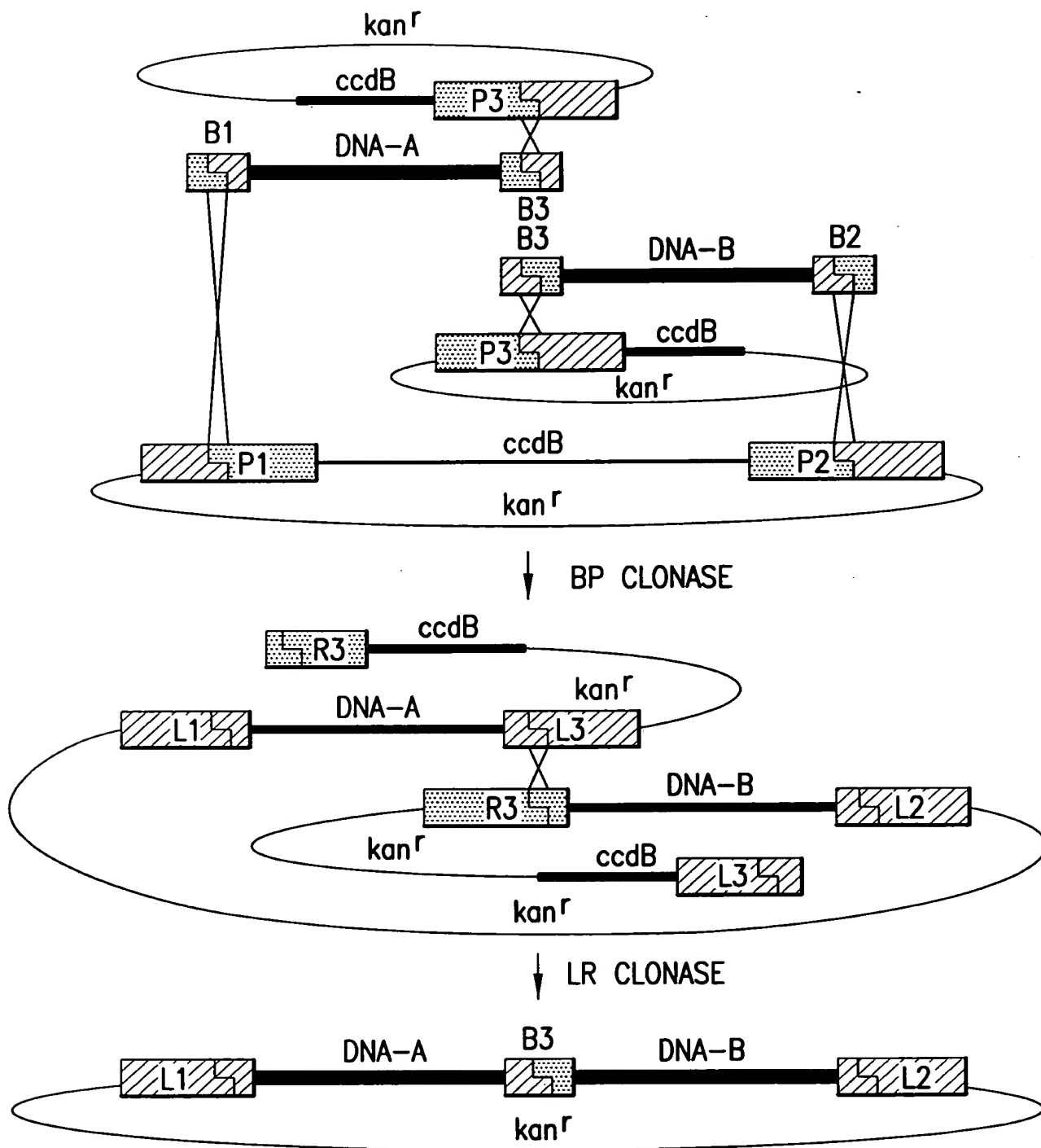


FIG.5

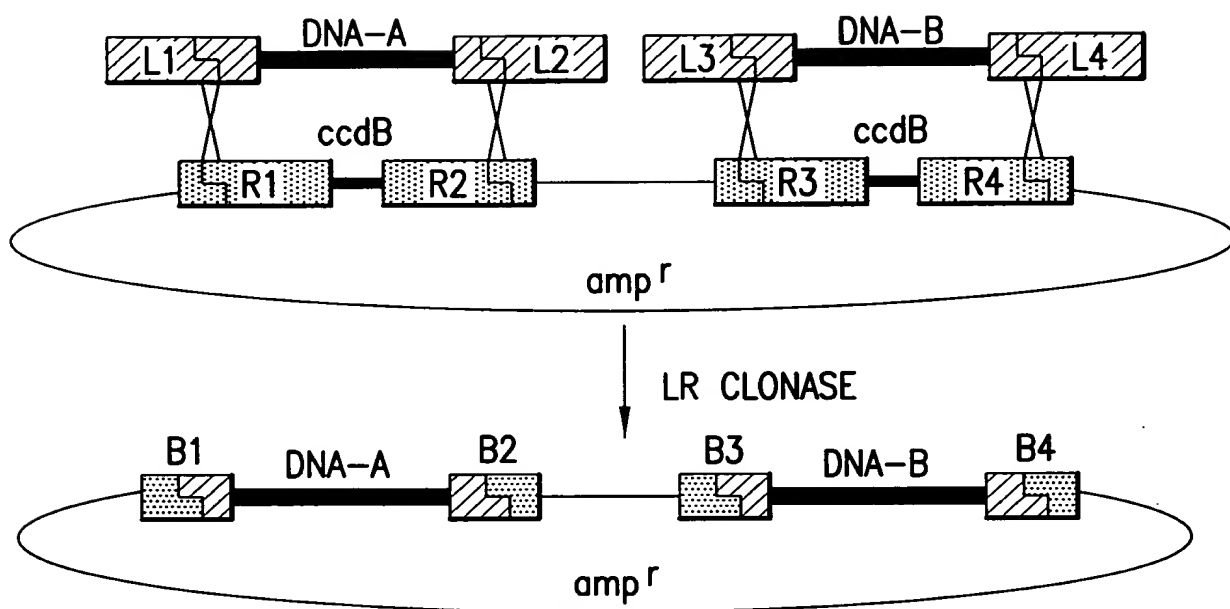


FIG.6

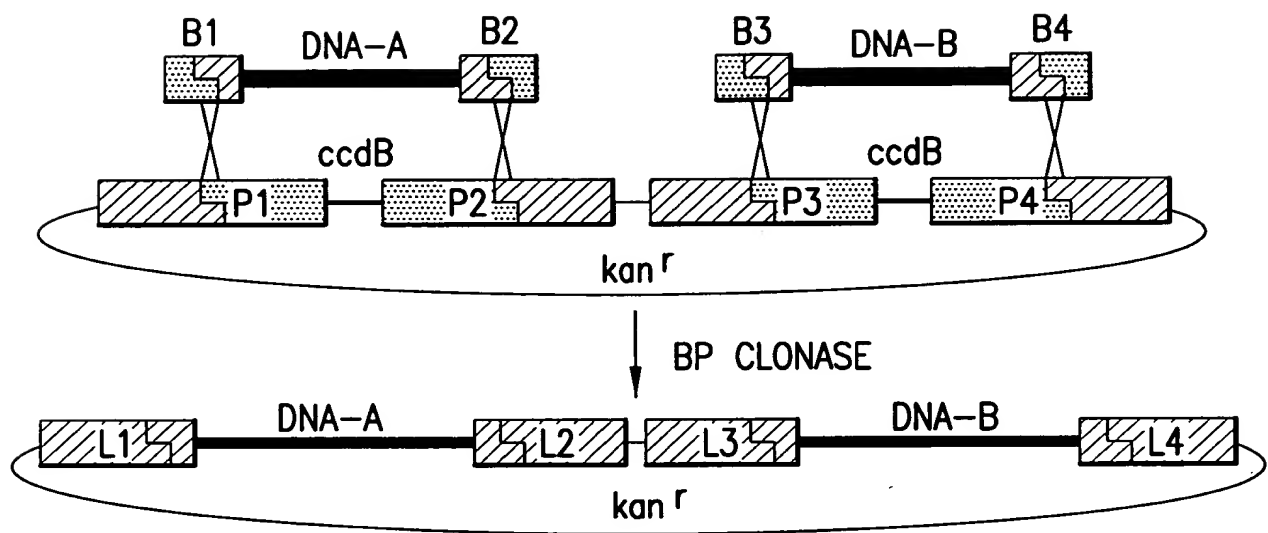


FIG.7

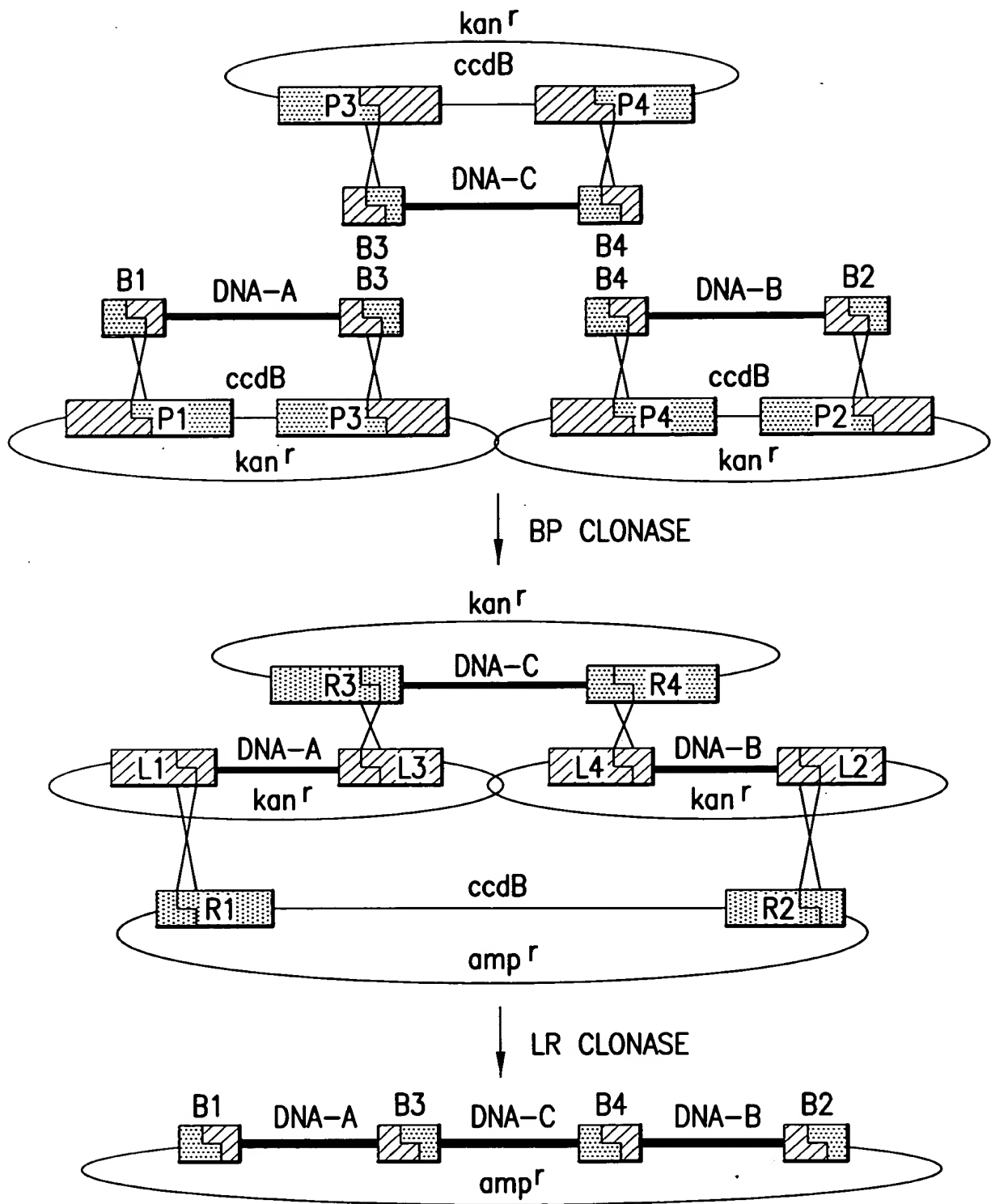


FIG.8

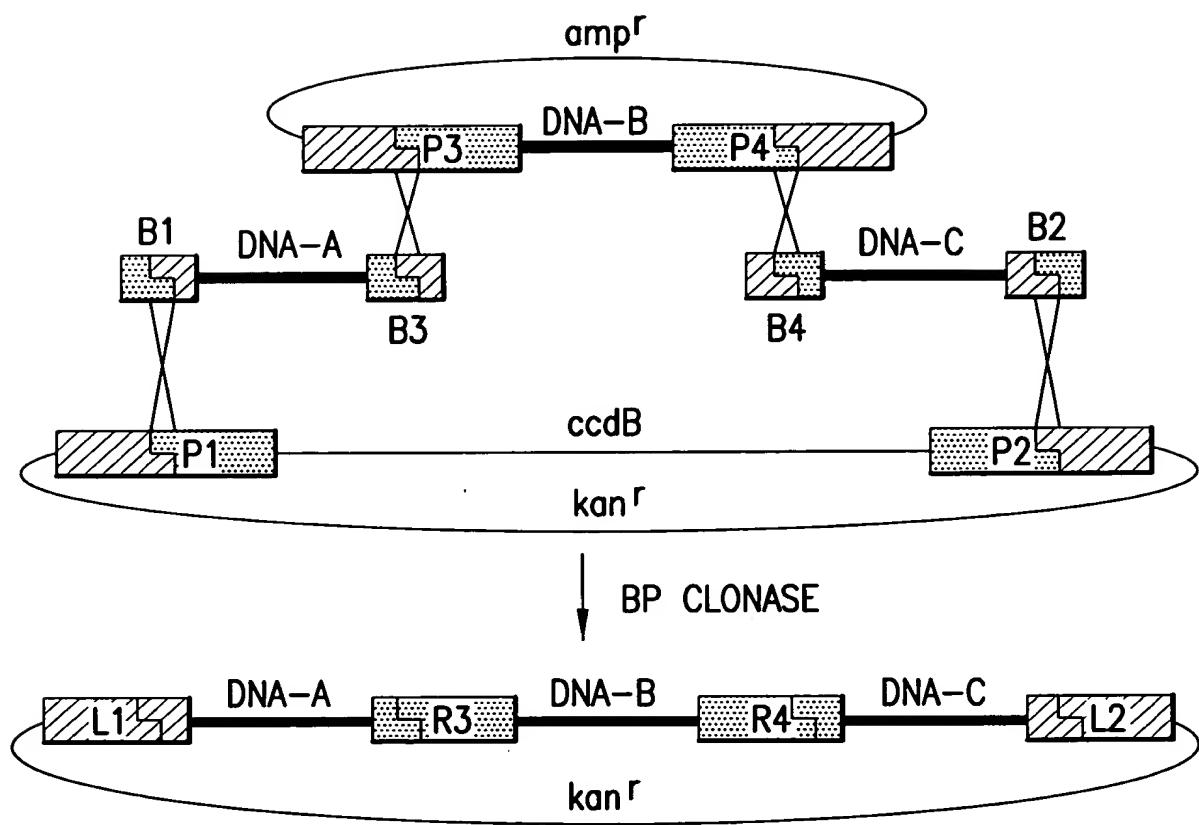


FIG.9

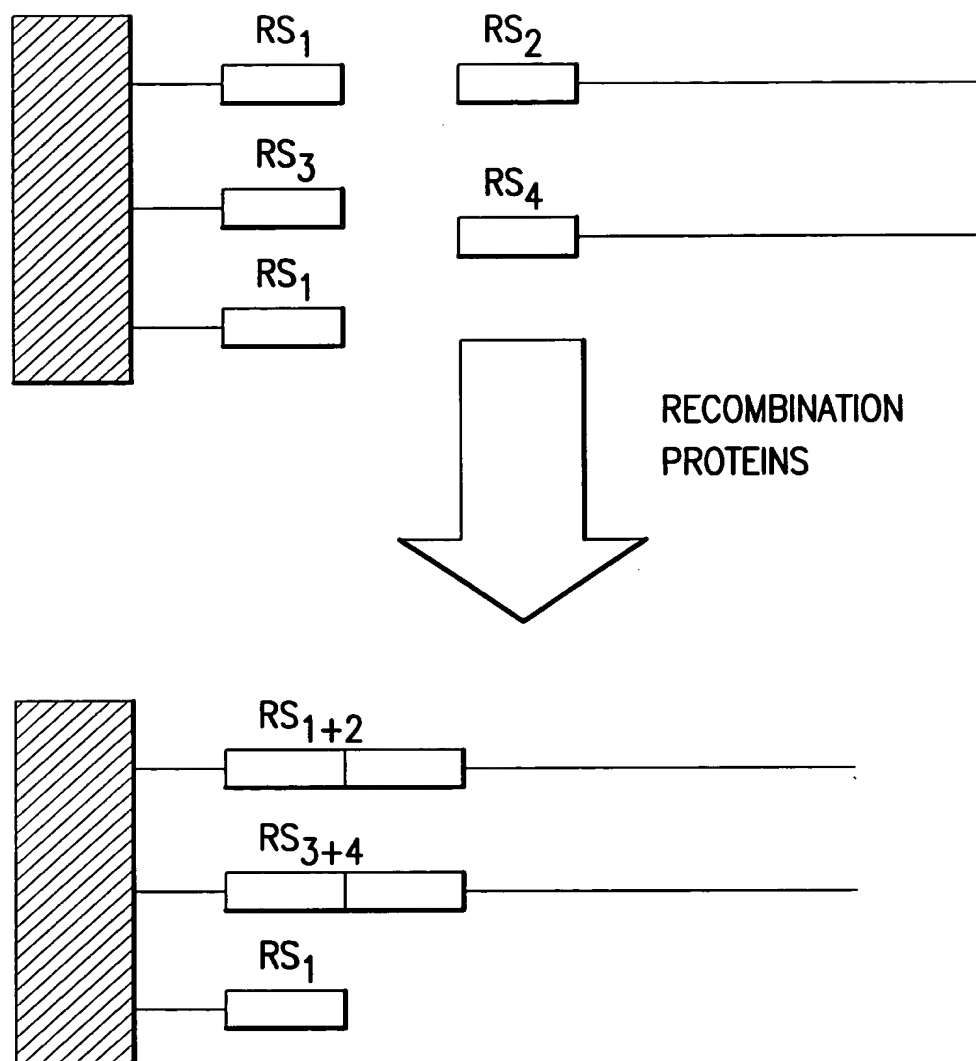


FIG.10

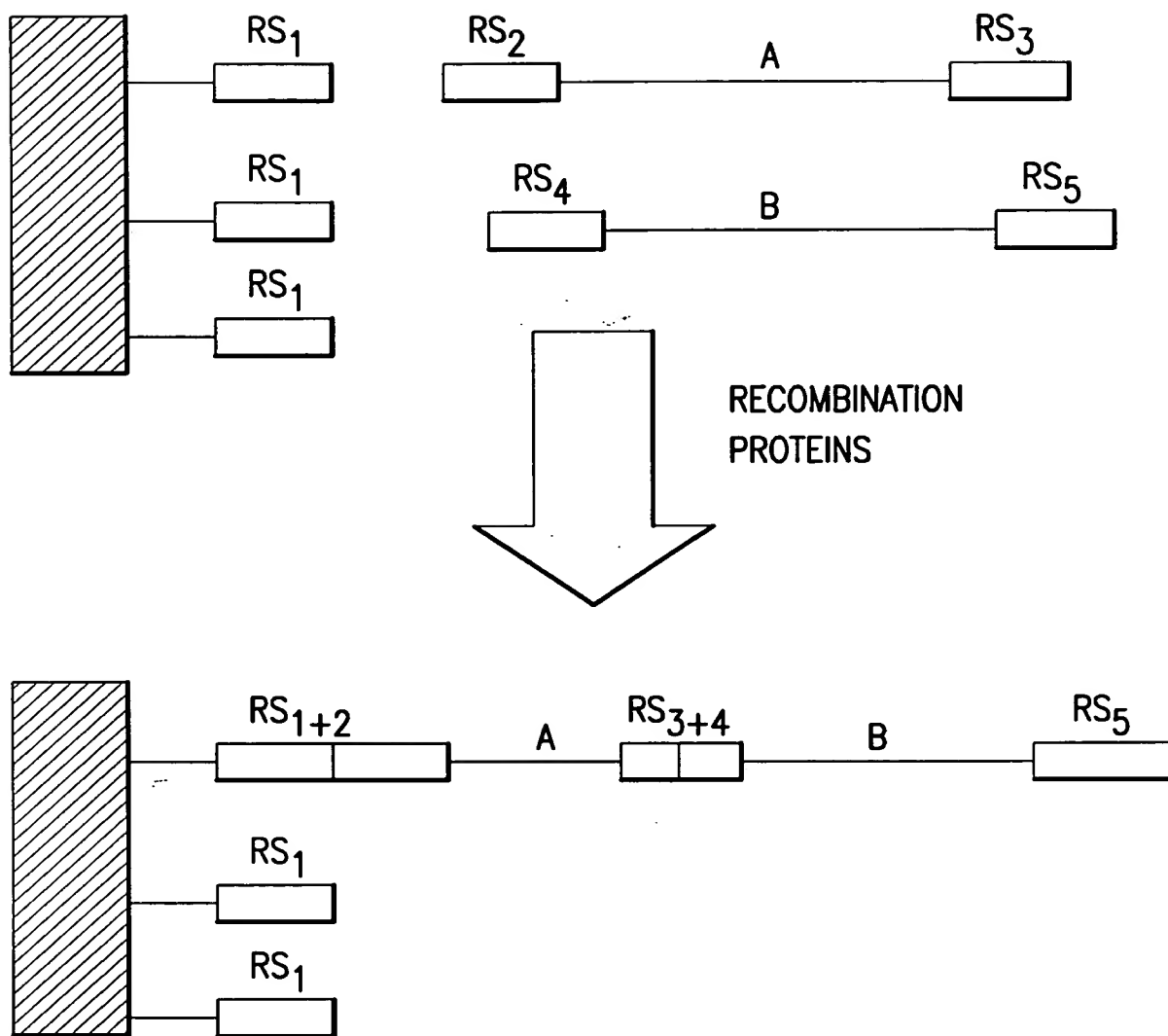


FIG.11

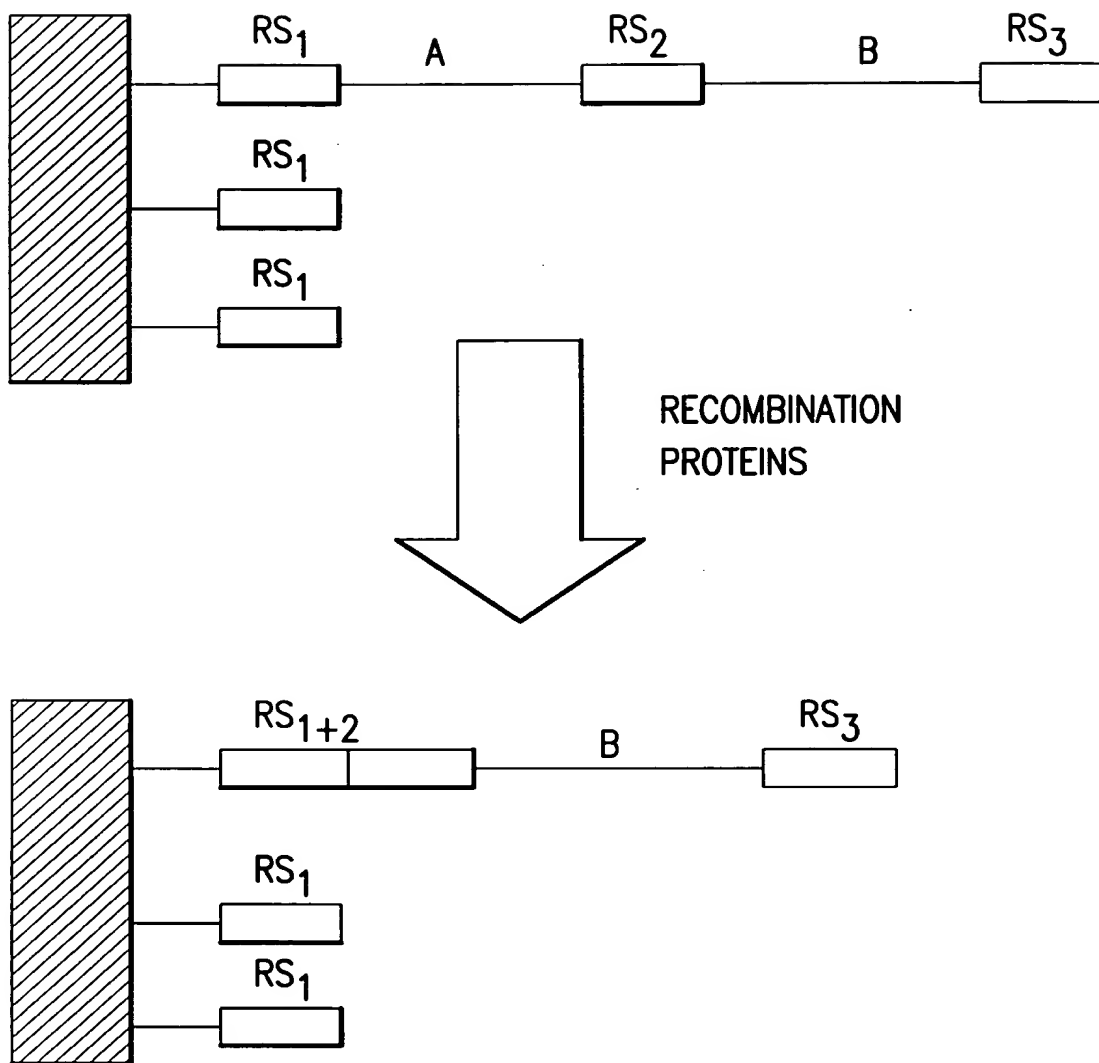


FIG.12

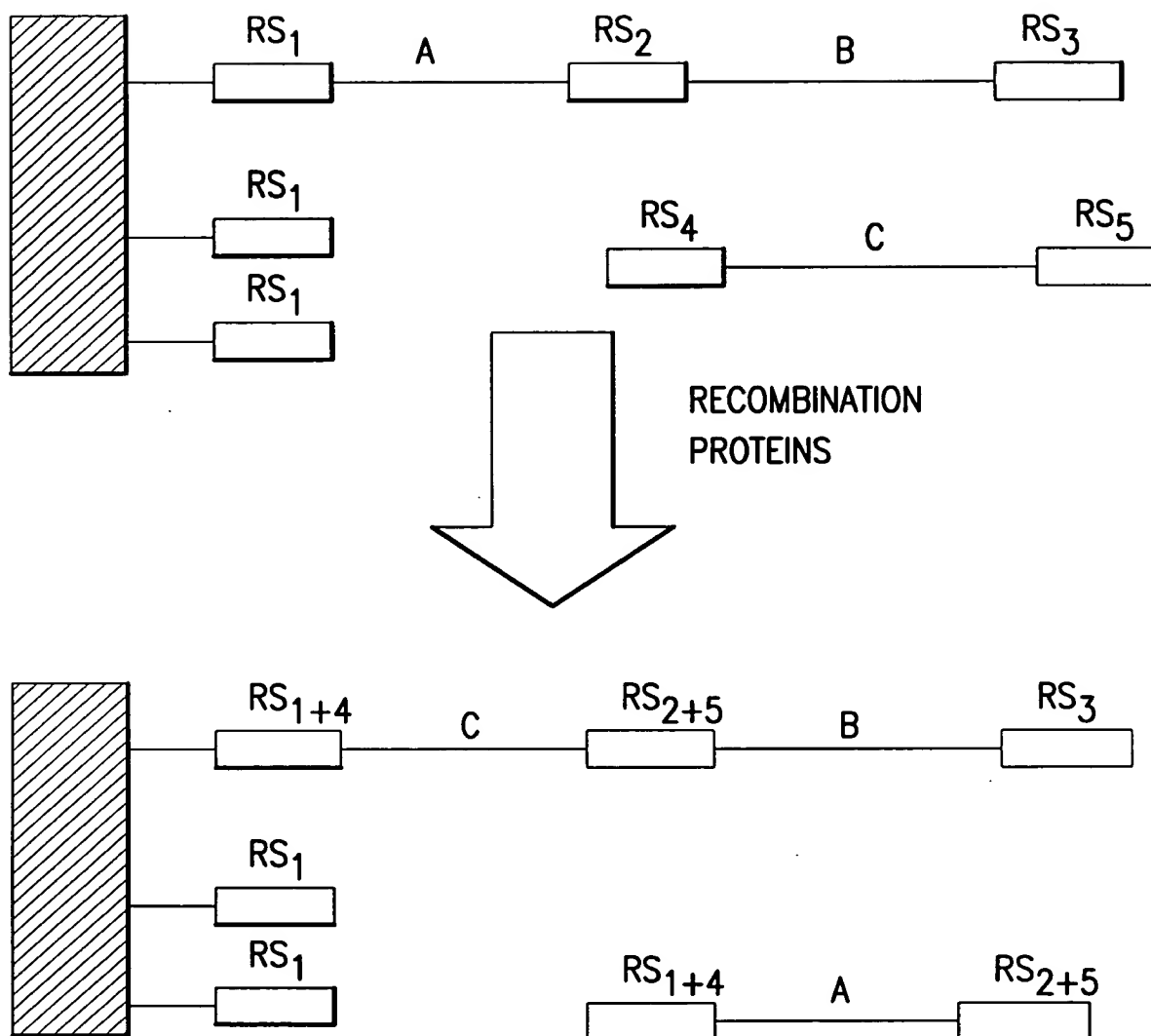


FIG.13

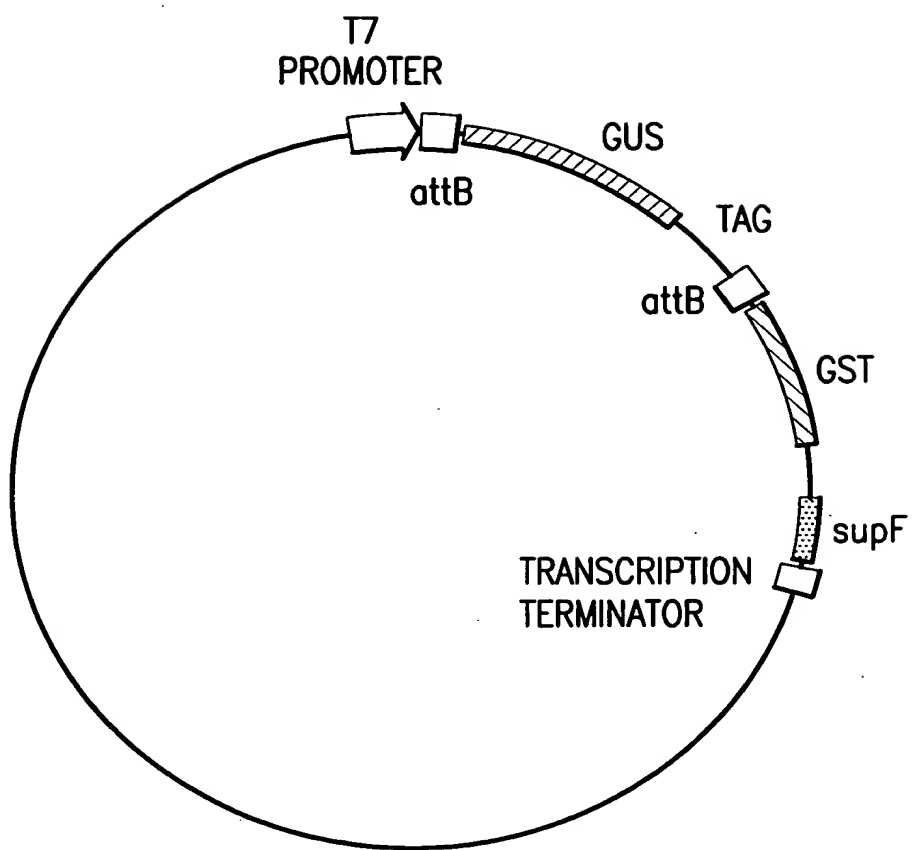


FIG.14A

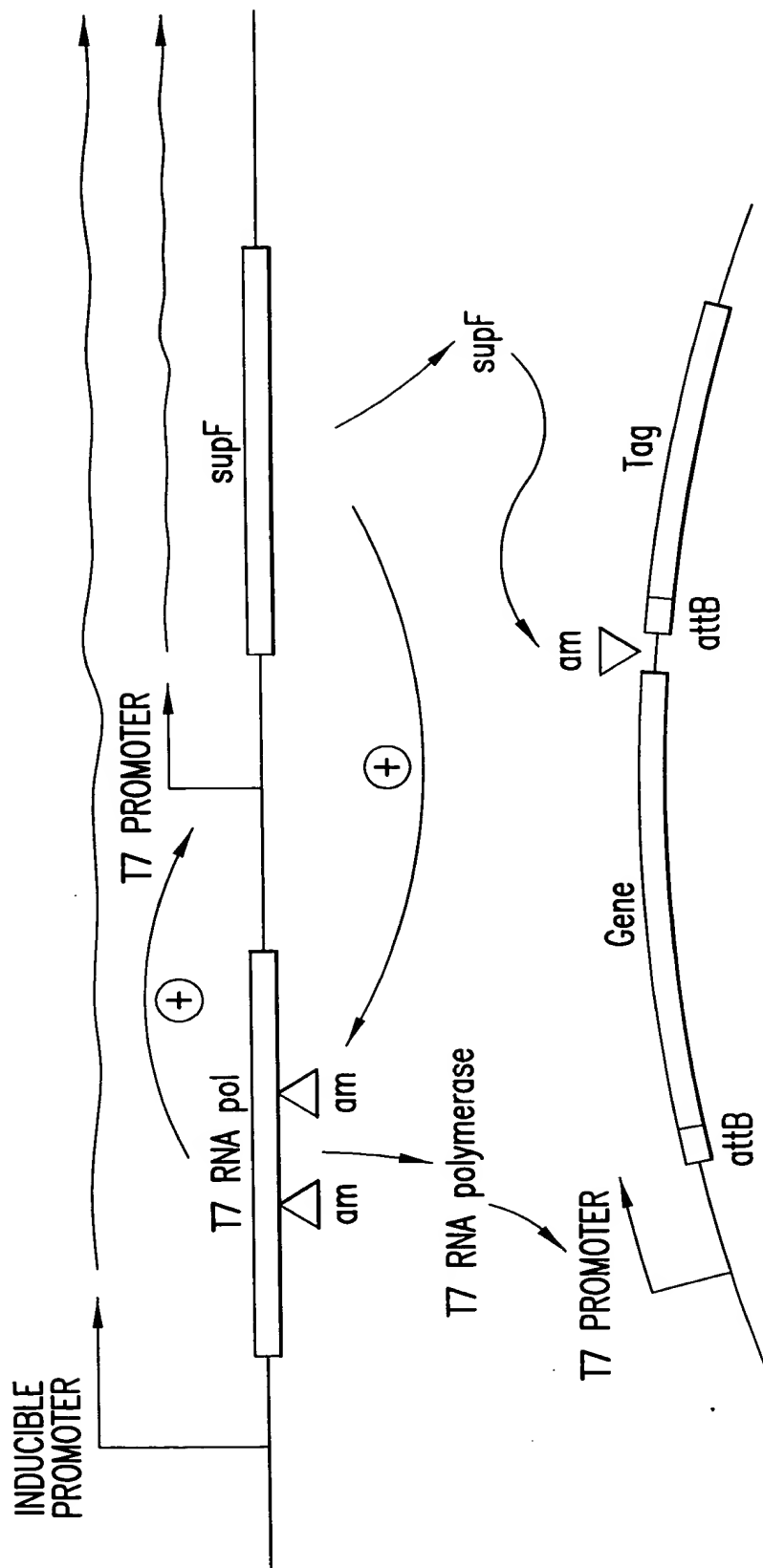


FIG.14B

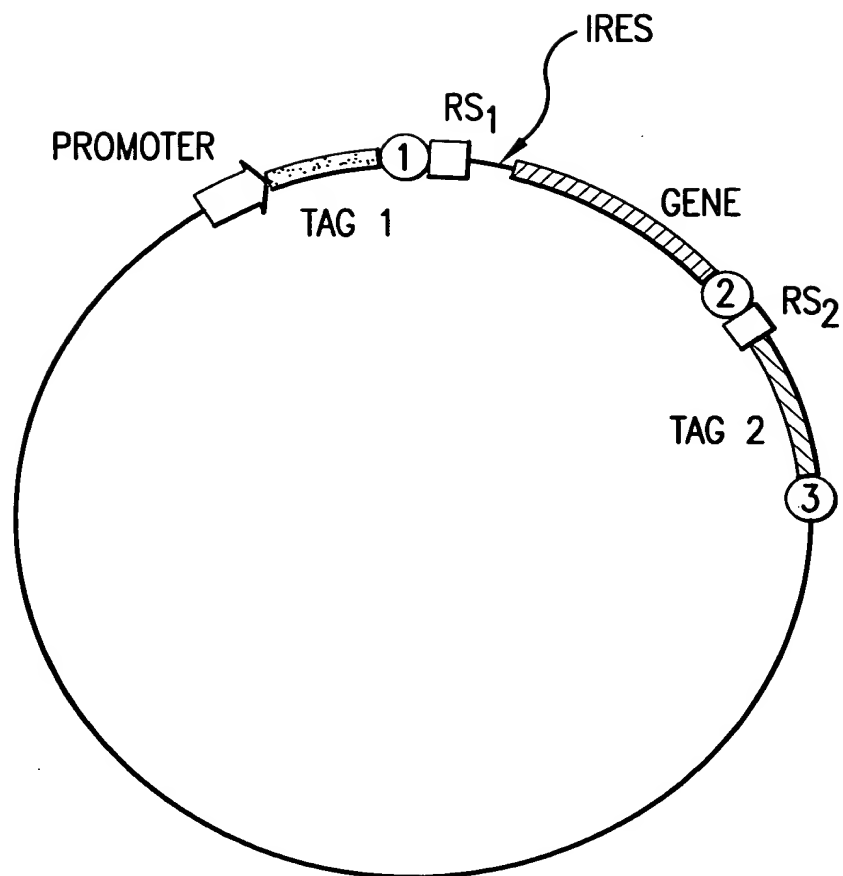


FIG.15

FIG. 15 is a schematic diagram of a circular plasmid vector. The plasmid vector contains a promoter, a tag, a restriction site (RS₁), an internal ribosome entry site (IRES), a gene, another tag, and another restriction site (RS₂). The plasmid vector is shown in a circular format with three numbered markers (1, 2, 3) indicating specific locations.

FIGURE 16

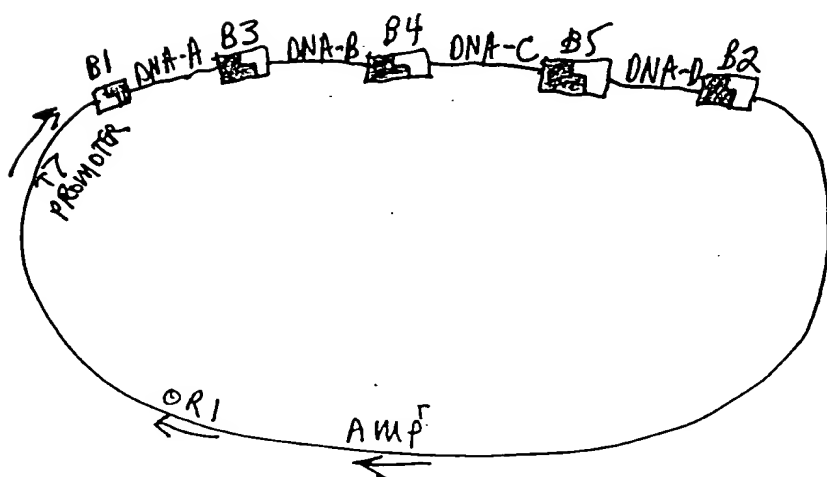
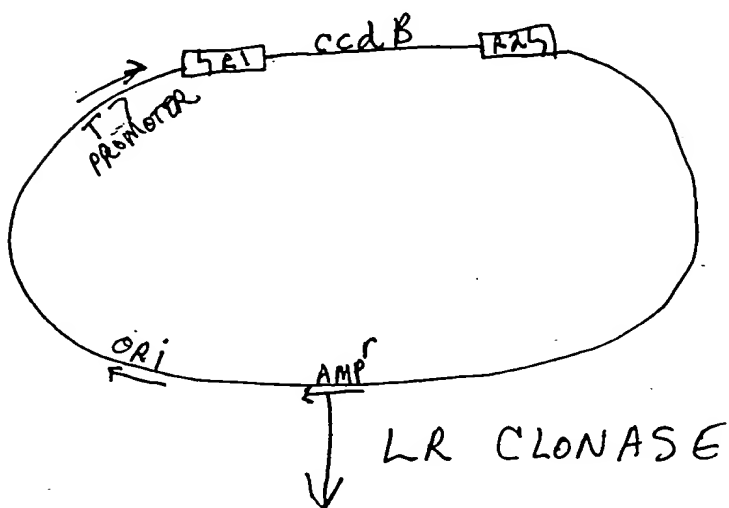
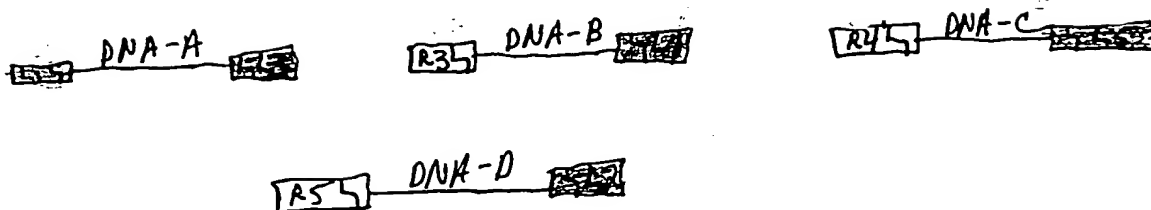


FIGURE 17A

Cloning Light

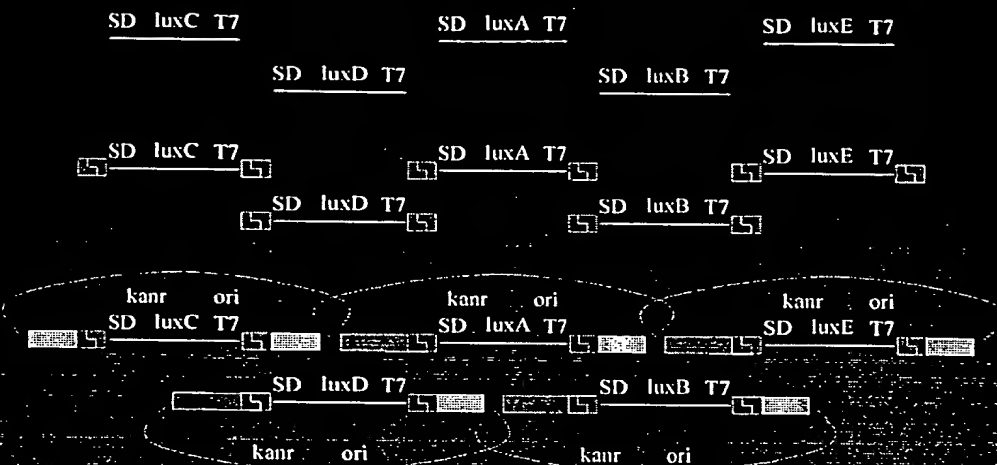


FIGURE 17B

Cloning Light

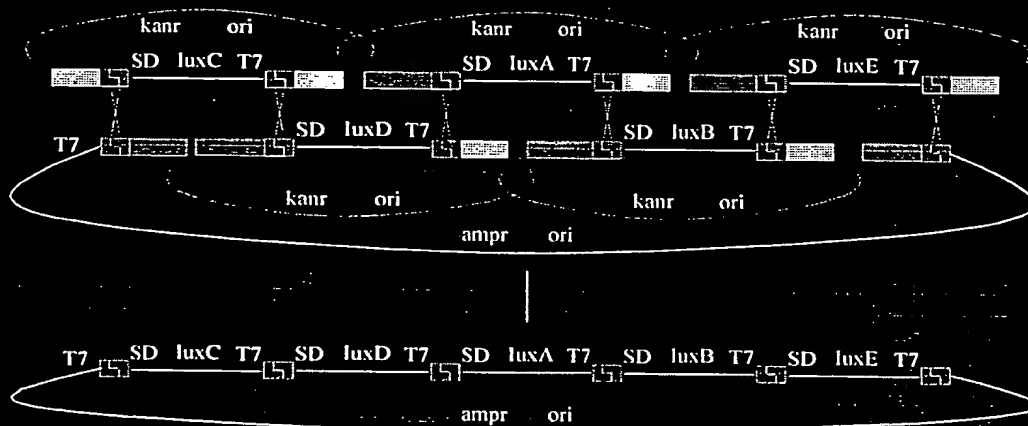


FIGURE 18

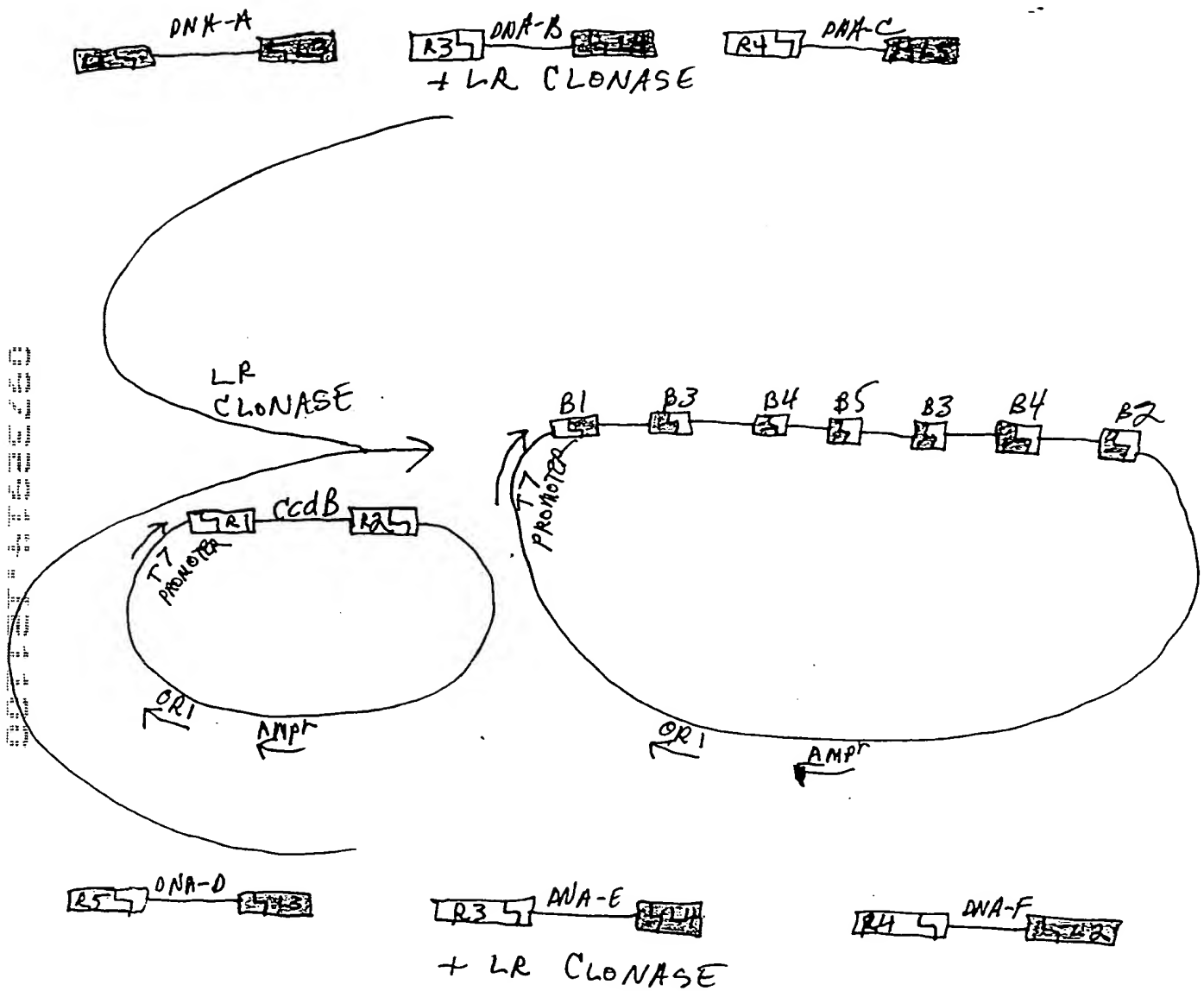


FIGURE 19

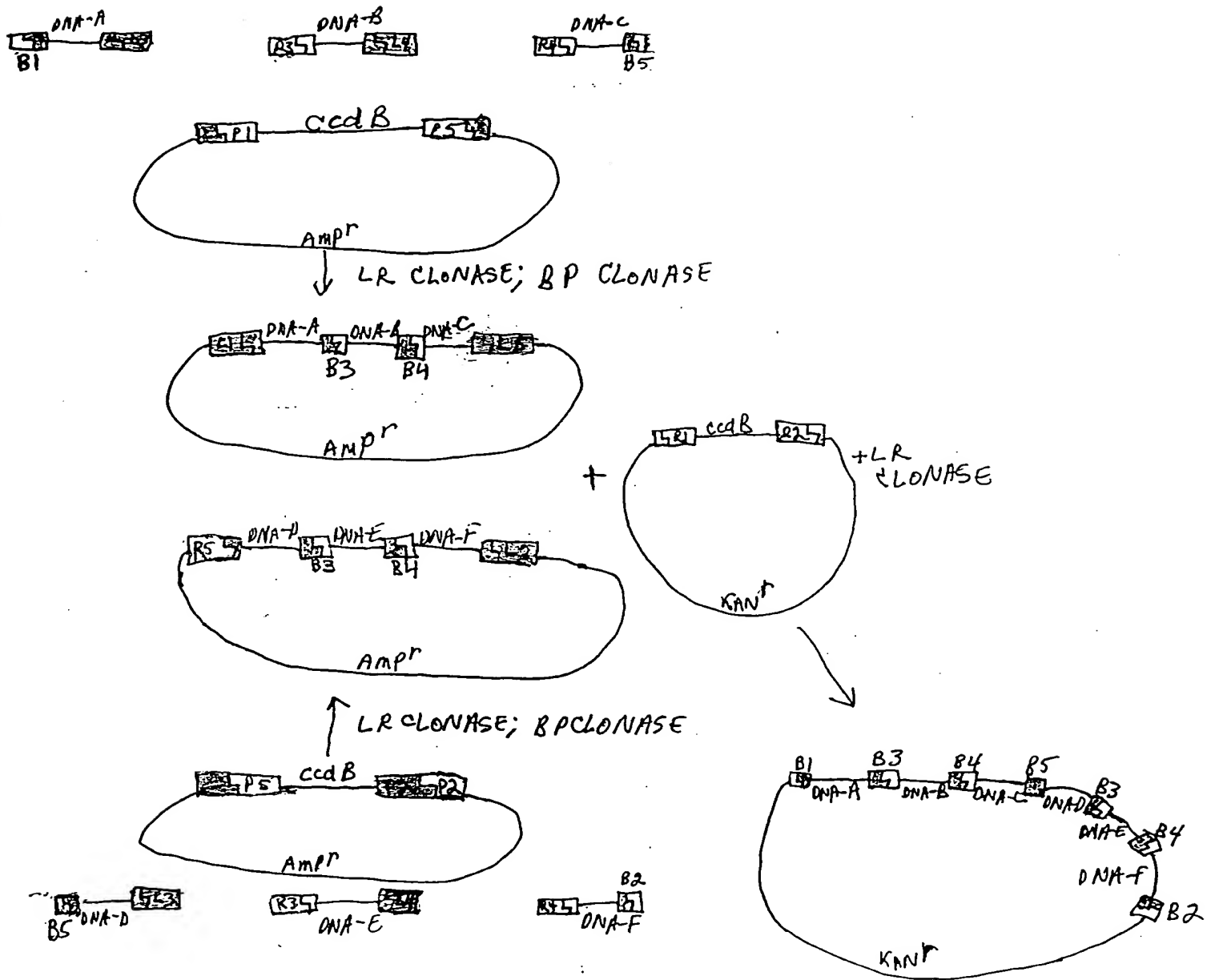


FIGURE 20

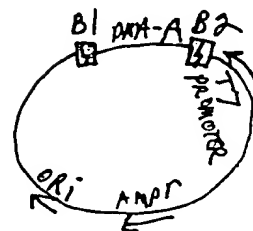
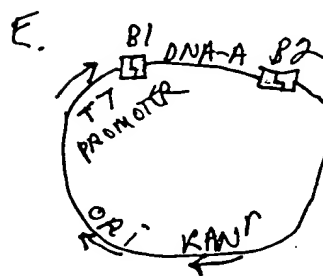
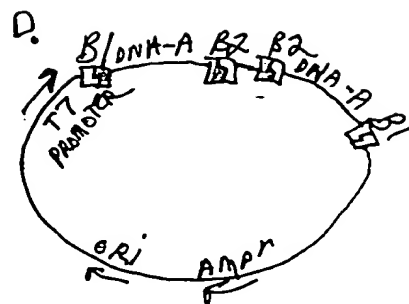
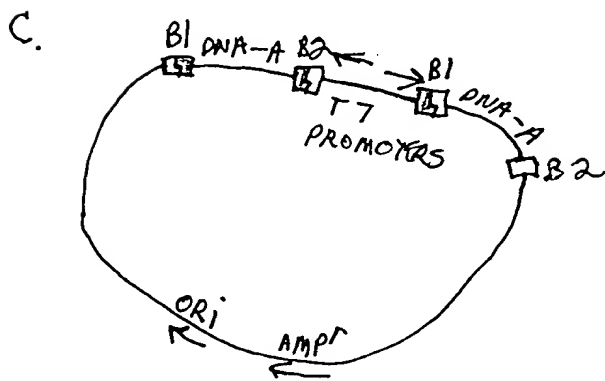
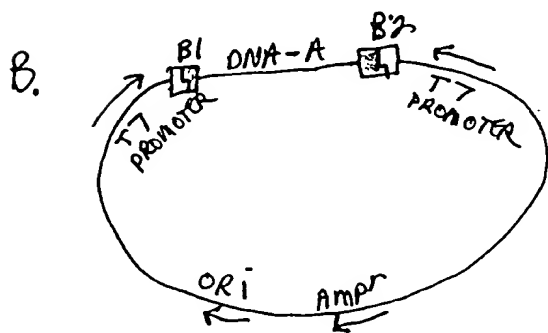
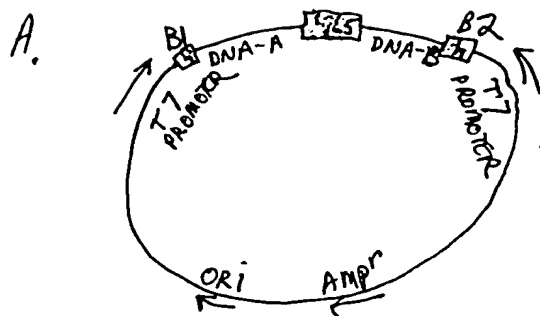


FIGURE 21

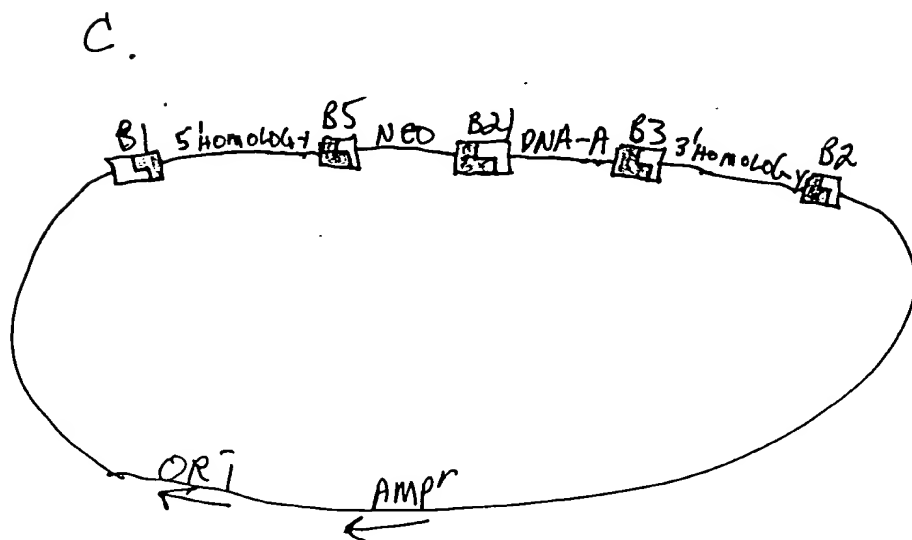
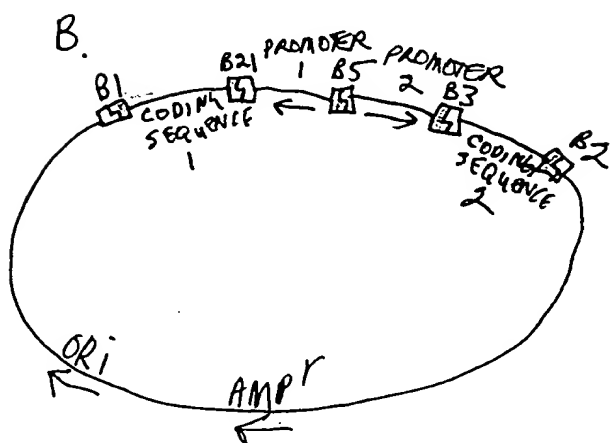
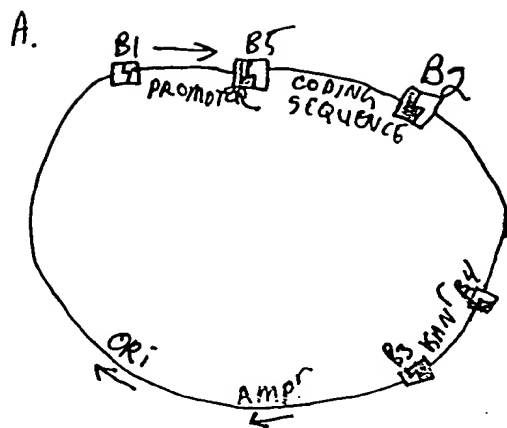


FIGURE 2 2 A

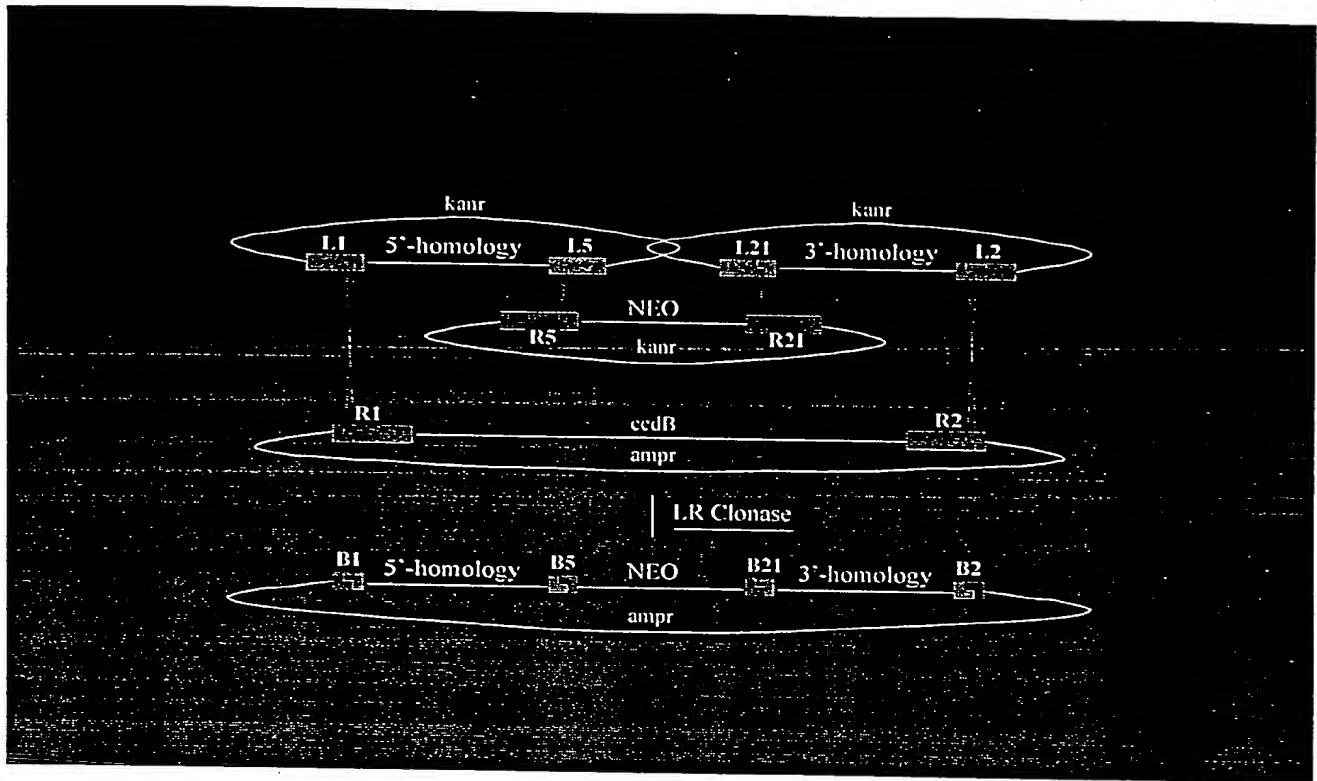


FIGURE 2 2 B

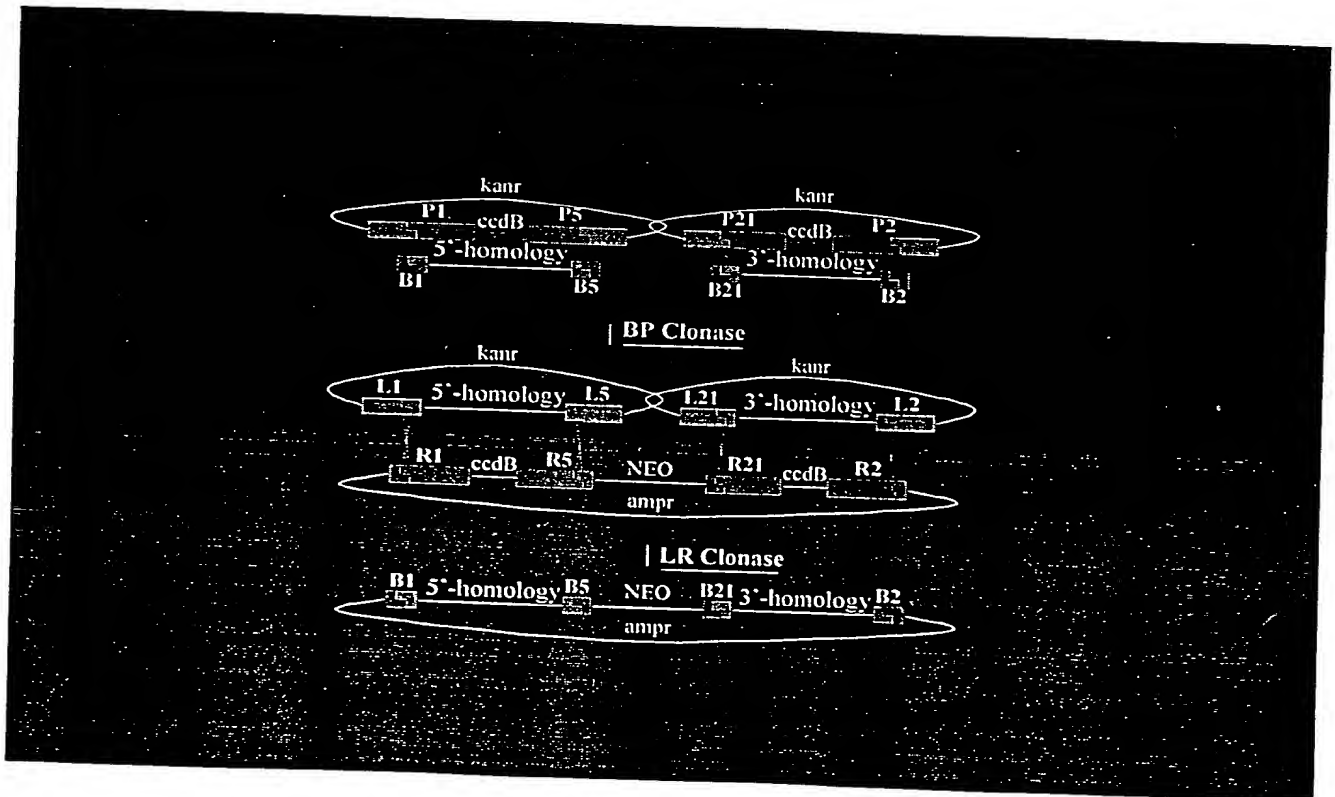


FIGURE 23

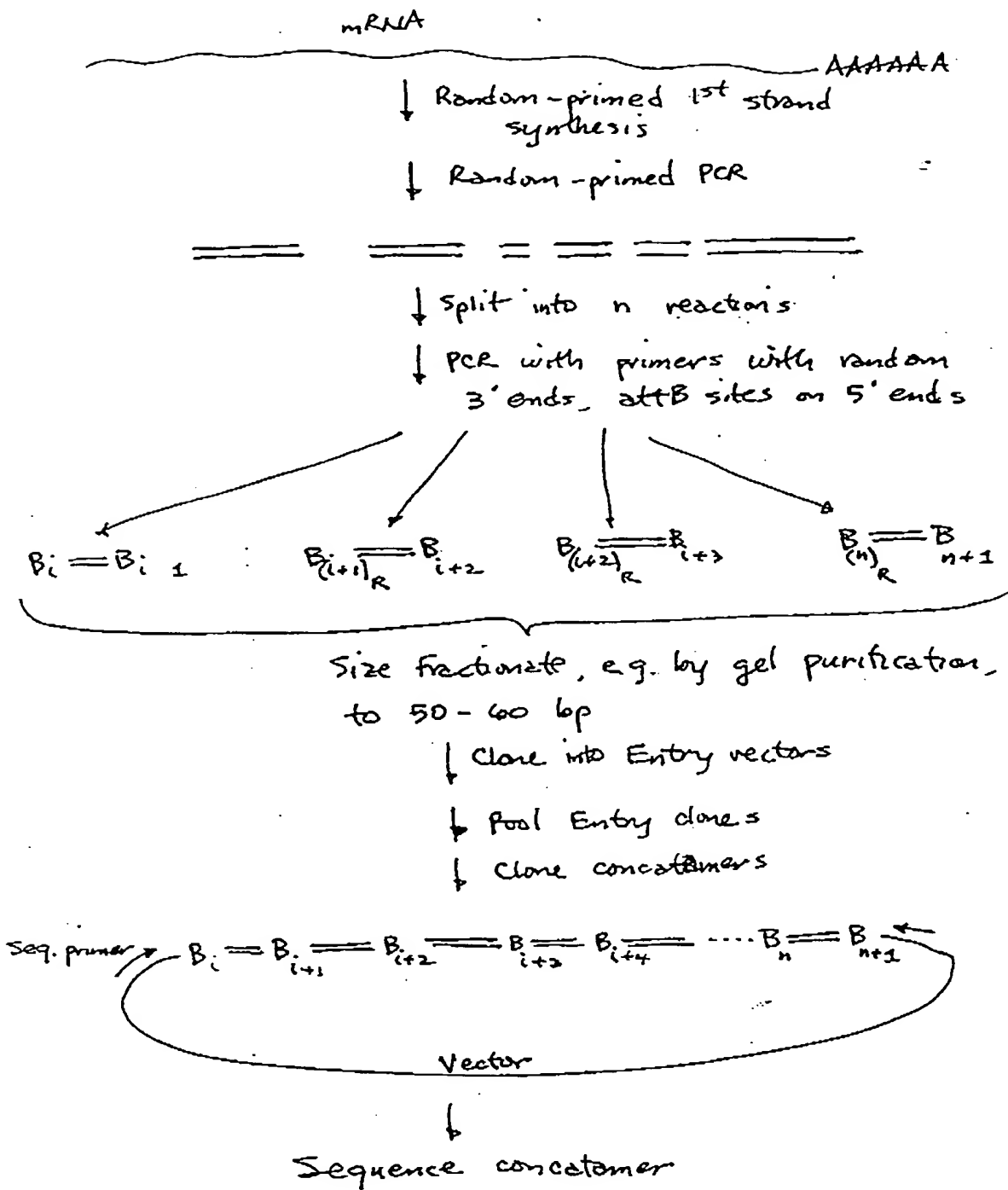


FIGURE 24A

attB0 AGCCTGCTTTTTTTATACTAACTTGAGC (SEQ ID NO:1)
TCGGACGAAAAAATATGATTGAACTCG

attP0 GTTCAGCTTTTTTTATACTAAAGTTGGCA (SEQ ID NO:2)
CAAGTCGAAAAAATATGATTCAACCGT

attL0 AGCCTGCTTTTTTTATACTAAAGTTGGCA (SEQ ID NO:3)
TCGGACGAAAAAATATGATTCAACCGT

attR0 GTTCAGCTTTTTTTATACTAACTTGAGC (SEQ ID NO:4)
CAAGTCGAAAAAATATGATTGAACTCG

attB1 AGCCTGCTTTTTTTGTACAAACTTGT (SEQ ID NO:5)
TCGGACGAAAAAATATGTTTGAACA

attP1 GTTCAGCTTTTTTTGTACAAAGTTGGCA (SEQ ID NO:6)
CAAGTCGAAAAAACATGTTTCAACCGT

attL1 AGCCTGCTTTTTTTGTACAAAGTTGGCA (SEQ ID NO:7)
TCGGACGAAAAAACATGTTTCAACCGT

attR1 GTTCAGCTTTTTTTGTACAAACTTGT (SEQ ID NO:8)
CAAGTCGAAAAAACATGTTTGAACA

attB2 ACCCAGCTTTCTTGTACAAAGTGGT (SEQ ID NO:9)
TGGGTCGAAAGAATATGTTTCACCA

attP2 GTTCAGCTTTCTTGTACAAAGTTGGCA (SEQ ID NO:10)
CAAGTCGAAAGAACATGTTTCAACCGT

attL2 ACCCAGCTTTCTTGTACAAAGTTGGCA (SEQ ID NO:11)
TGGGTCGAAAGAACATGTTTCAACCGT

attR2 GTTCAGCTTTCTTGTACAAAGTGGT (SEQ ID NO:12)
CAAGTCGAAAGAACATGTTTGACCA

attB5 CAACTTTATTATACAAAGTTGT (SEQ ID NO:13)
GTTGAAATAATATGTTTCAACA

attP5 GTTCAACTTTATTATACAAAGTTGGCA (SEQ ID NO:14)
CAAGTTGAAATAATATGTTTCAACCGT

FIGURE 24B

attL5 CAACTTTATTATACAAAGTTGGCA (SEQ ID NO:15)
GTTGAAATAATATGTTTCAACCGT

attR5 GTTCAACTTTATTATACAAAGTTGT (SEQ ID NO:16)
CAAGTTGAAATAATATGTTTCAACA

attB11 CAACTTTTCTATACAAAGTTGT (SEQ ID NO:17)
GTTGAAAAGATATGTTTCAACA

attP11 GTTCAACTTTTCTATACAAAGTTGGCA (SEQ ID NO:18)
CAAGTTGAAAAGATATGTTTCAACCGT

attL11 CAACTTTTCTATACAAAGTTGGCA (SEQ ID NO:19)
GTTGAAAAGATATGTTTCAACCGT

attR11 GTTCAACTTTTCTATACAAAGTTGT (SEQ ID NO:20)
CAAGTTGAAAAGATATGTTTCAACA

attB17 CAACTTTTGTATACAAAGTTGT (SEQ ID NO:21)
GTTGAAAACATATGTTTCAACA

attP17 GTTCAACTTTTGTATACAAAGTTGGCA (SEQ ID NO:22)
CAAGTTGAAAACATATGTTTCAACCGT

attL17 CAACTTTTGTATACAAAGTTGGCA (SEQ ID NO:23)
GTTGAAAACATATGTTTCAACCGT

attR17 GTTCAACTTTTGTATACAAAGTTGT (SEQ ID NO:24)
CAAGTTGAAAACATATGTTTCAACA

attB19 CAACTTTTTCGTACAAAGTTGT (SEQ ID NO:25)
GTTGAAAAGCATGTTTCAACA

attP19 GTTCAACTTTTTCGTACAAAGTTGGCA (SEQ ID NO:26)
CAAGTTGAAAAGCATGTTTCAACCGT

attL19 CAACTTTTTCGTACAAAGTTGGCA (SEQ ID NO:27)
GTTGAAAAGCATGTTTCAACCGT

attR19 GTTCAACTTTTTCGTACAAAGTTGT (SEQ ID NO:28)
CAAGTTGAAAAGCATGTTTCAACA

FIGURE 24C

attB20 CAACTTTTTTGGTACAAAGTTGT (SEQ ID NO:29)
 GTTGAAAAACCATGTTTCAACA

attP20 GTTCAACTTTTTTGGTACAAAGTTGGCA (SEQ ID NO:30)
 CAAGTTGAAAAACCATGTTTCAACCGT

attL20 CAACTTTTTTGGTACAAAGTTGGCA (SEQ ID NO:31)
 GTTGAAAAACCATGTTTCAACCGT

attR20 GTTCAACTTTTTTGGTACAAAGTTGT (SEQ ID NO:32)
 CAAGTTGAAAAACCATGTTTCAACA

attB21 CAACTTTTTTAATACAAAGTTGT (SEQ ID NO:33)
 GTTGAAAAATTATGTTTCAACA

attP21 GTTCAACTTTTTTAATACAAAGTTGGCA (SEQ ID NO:34)
 CAAGTTGAAAAATTATGTTTCAACCGT

attL21 CAACTTTTTTAATACAAAGTTGGCA (SEQ ID NO:35)
 GTTGAAAAATTATGTTTCAACCGT

attR21 GTTCAACTTTTTTAATACAAAGTTGT (SEQ ID NO:36)
 CAAGTTGAAAAATTATGTTTCAACA

FIGURE 25A

Vector Assembly Using Modular Vector Element Entry Clones

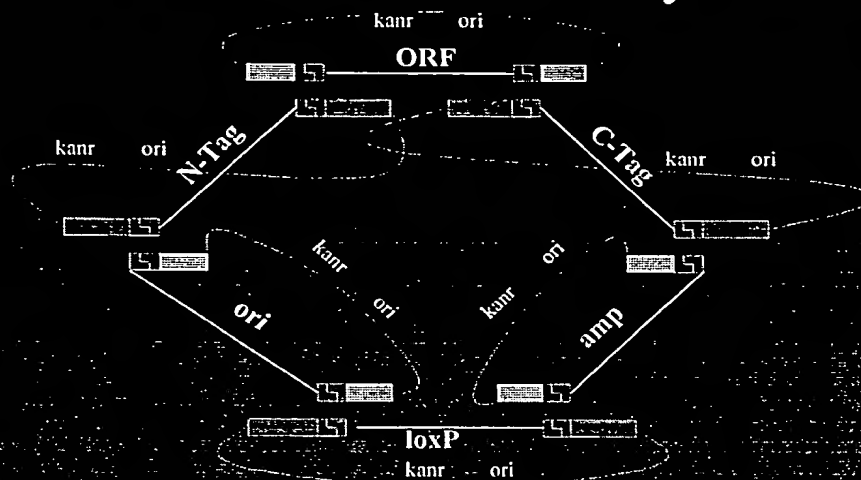


FIGURE 25B

Vector Assembly Using Modular Vector Element Entry Clones

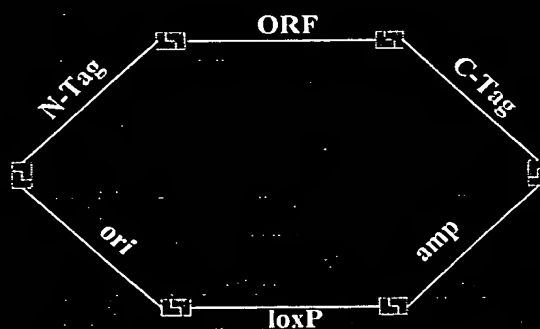


FIGURE 26 A

Construction of attP Plasmids

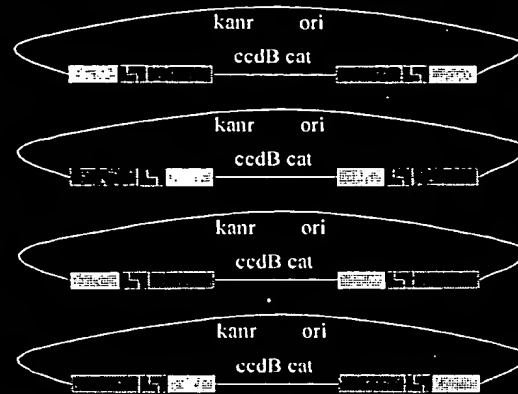
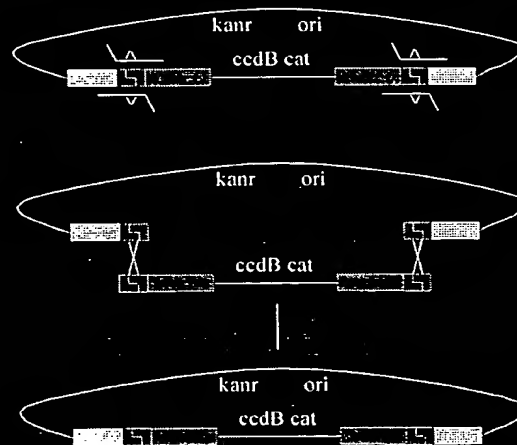
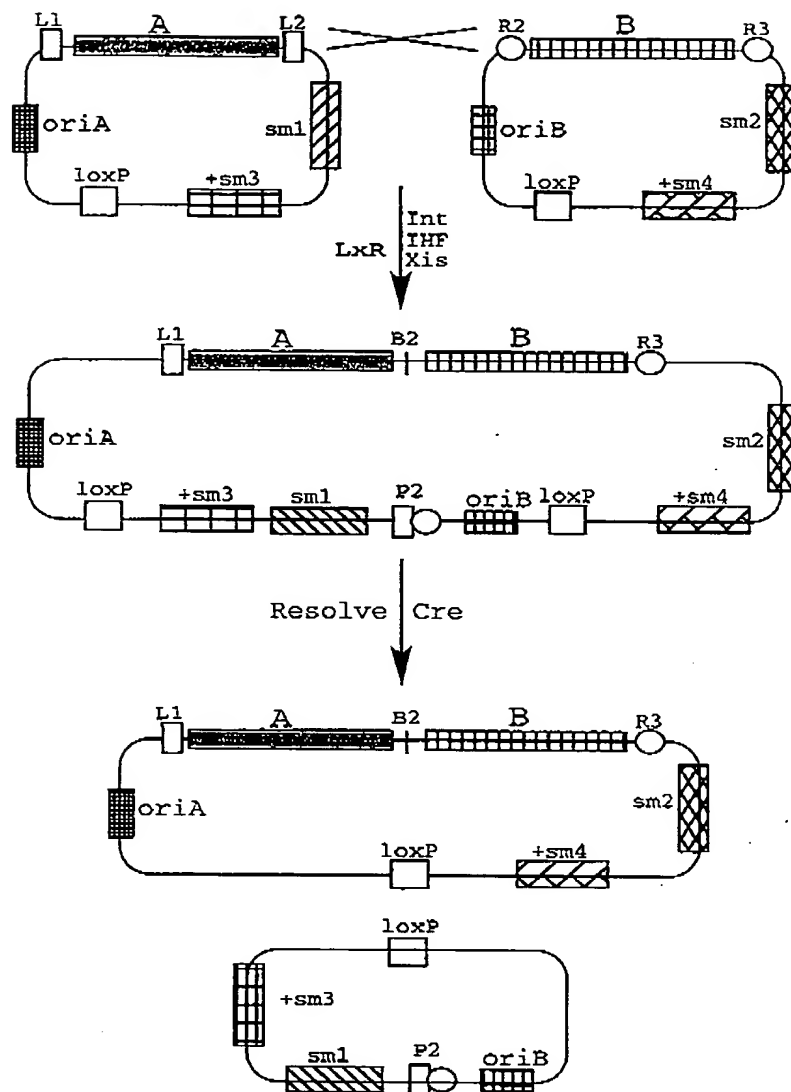


FIGURE 26 B

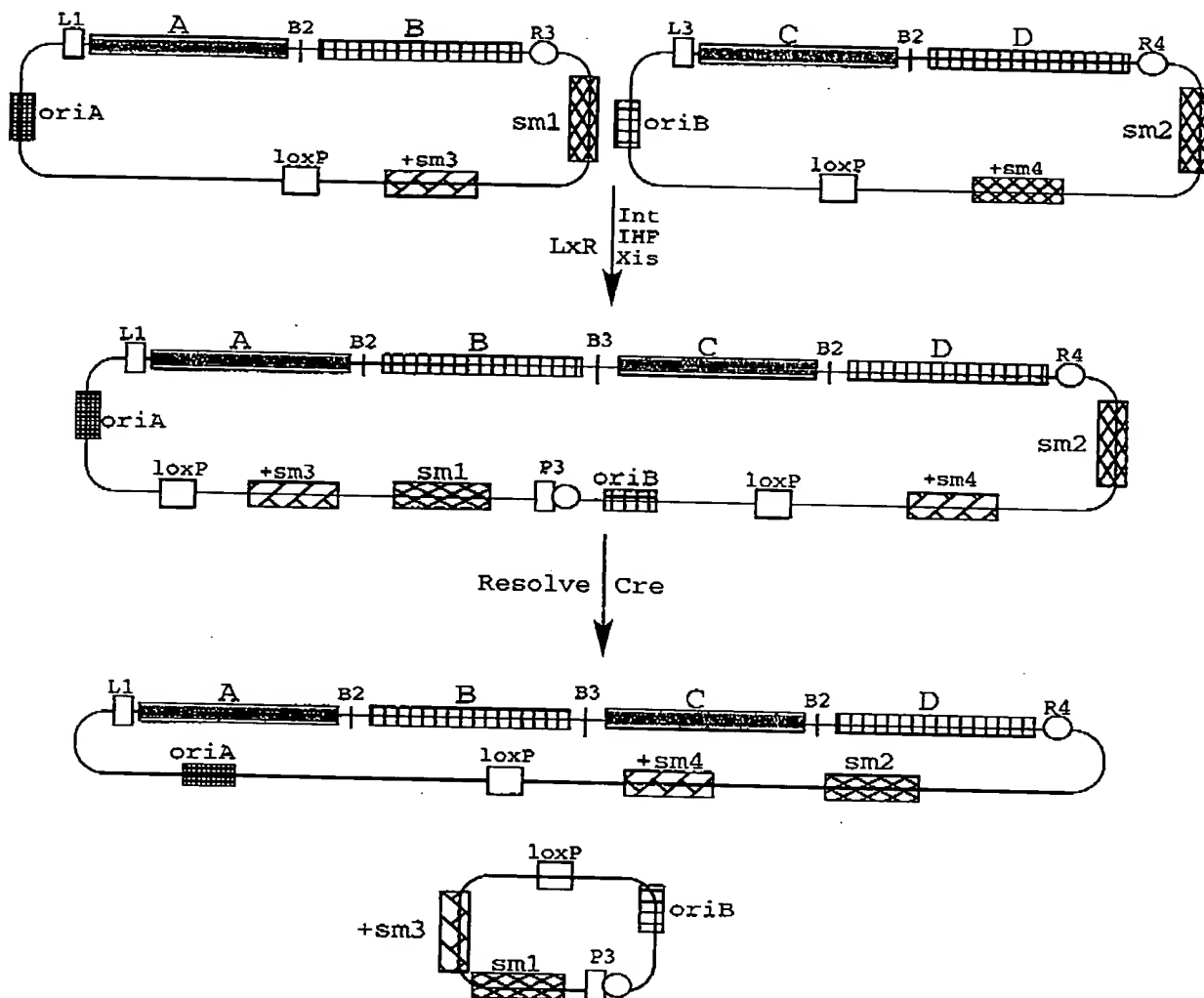
Construction of attP Plasmids





Transform host that will support replication of *oriA* but not *oriB* and moreover, is sensitive to *+sm3* but resistant to *+sm4*.

FIGURE 27A



Transform host that will support replication of *oriA* but not *oriB* and moreover, is sensitive to +sm3 but resistant to +sm4.

FIGURE 27B